

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS AND RELATED MATERIALS

(Approved by U.S. Department of Labor "Essentially Similar" to Form OSHA-20)

DATE OF PREP

JULY 1983

Section I

MANUFACTURER'S NAME BOSTIK WEST/DIVISION OF USM CORPORATION/EMHART

STREET ADDRESS 20846 SOUTH NORMANDIE AVENUE CITY, STATE, AND ZIP CODE TORRANCE, CALIFORNIA 90502

EMERGENCY TELEPHONE NO. (213) 320-6800

PRODUCT CLASS EPOXY

DPM 110-7511 BASE SEMI-GLOSS SUNLIGHT

TRADE NAME BOSTIK

MANUFACTURERS CODE IDENTIFICATION 453-3-121

CATALYST: CA-118

MIX RATIO: 3 parts 453-3-121 (base)
to 1 part CA-118 by volume.

Section II - HAZARDOUS INGREDIENTS

| INGREDIENT | CAS NO. | PERCENT (WT.) | TLV | | LEL | VAPOR PRESSURE |
|------------------------|------------|---------------|-----|-------------------|-----|----------------|
| | | | PPM | mg/M ³ | | |
| 453-3-121 (BASE ONLY) | | | | | | |
| METHYL ETHYL KETONE | 78-93-3 | 25-30 | 200 | | 1.8 | 70 |
| CELLOSOLVE ACETATE | 111-15-9 | 5-10 | 100 | | 1.7 | 2 |
| N. BUTYL ACETATE | 123-86-4 | 5-10 | 150 | | 1.7 | 8 |
| TOLUENE | 108-88-3 | <5 | 200 | | 1.2 | 22 |
| XYLENE | 1330-20-7 | <5 | 100 | | 1.0 | 7 |
| BUTYL CELLOSOLVE | 111-76-2 | <5 | 50 | | 1.1 | 1 |
| N. BUTYL ALCOHOL | 71-36-3 | <1 | 100 | | 1.7 | 4 |
| CHROMIUM COMPOUNDS AS: | | | | | | |
| Cr | 13765-19-0 | <0.01 | - | *0.05 | - | - |
| Pb | 17758-97-6 | <0.01 | - | *0.05 | - | - |

* OSHA, 8 hrs TWA

Section III - PHYSICAL DATA

BOILING RANGE 176° - 340° F

VAPOR DENSITY ☒ HEAVIER ☐ LIGHTER THAN AIR

EVAPORATION RATE ☐ FASTER ☒ SLOWER THAN ETHER

PERCENT VOLATILE BY VOLUME 68.2%

WEIGHT PER GALLON 9.9 lbs

Section IV - FIRE AND EXPLOSION HAZARD DATA

DOT CATEGORY RED LABEL, FLAMMABLE

(MIN.) FLASH POINT 23°F TAG CLOSED CUP

LEL 1.0

EXTINGUISHING MEDIA EXCLUDE AIR - USE FOAM, CO₂, STEAM, WATER FOG, DRY CHEMICALS.
DO NOT USE WATER.

UNUSUAL FIRE AND EXPLOSION HAZARDS

VAPOR FORMS EXPLOSIVE MIXTURE WITH AIR BETWEEN
UPPER AND LOWER EXPLOSION LIMITS.

SPECIAL FIRE FIGHTING PROCEDURES

DO NOT USE WATER, EXCLUDE AIR, USE WATER SPRAY TO
COOL FIRE EXPOSED SURFACES AND TO PROTECT PERSONNEL.

Section V – HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE : See Section II

EFFECTS OF OVEREXPOSURE : Headache, nausea, dizziness. Breathing vapor will be irritating to nose, throat and eyes.

Emergency and first aid procedures: Skin Exposure: Wash affected area with soap & water.

Eye Exposure: Flush with water for at least 15 minutes, consult physician.

Ingestion: Consult physician immediately.

Inhalation: Remove victim to fresh air, consult physician.

Section VI – REACTIVITY DATA

STABILITY ☐ UNSTABLE ☒ STABLE

CONDITIONS TO AVOID : Storage at high temperatures.

Incompatibility (Materials to avoid): Strong oxidizing agents. Sparks and open flame.

Hazardous Decomposition Products: On combustion CO, CO₂, Aldehydes and other organics, lead fumes oxides of nitrogen.

HAZARDOUS POLYMERIZATION ☐ MAY OCCUR ☒ WILL NOT OCCUR

CONDITIONS TO AVOID

Section VII – SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED : Eliminate sources of ignition and clear fumes from area. Prevent liquid from entering sewers, water sources, or low areas. Keep unnecessary personnel away. Shut off source, if possible to do so without hazard. Contain spilled liquid with sawdust, sand or oil absorbing compound. Wash area with detergent & water.

WASTE DISPOSAL METHOD
Consult disposal expert & ensure conformity with local regulations.

Section VIII – SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION : Use approved respiratory protection such as an air-supplied mask if used in non-ventilated area.

Mechanical: Explosion-proof ventilation equipment. No smoking or open lights.

VENTILATION : Face velocity > 60 fpm in confined area.

Protective gloves: Chemically resistant gloves.

EYE PROTECTION: Chemical splash goggles or face shield.

OTHER PROTECTIVE EQUIPMENT : Eye bath & safety shower.

Section IX – SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING : Keep containers closed when not in use. Do Not handle or store near flame, heat or strong oxidants. Adequate ventilation required. Containers of this product may be hazardous when emptied - these containers retain product residues (vapor, liquid, etc

OTHER PRECAUTIONS
All handling equipment should be electrically grounded. Treat as a very flammable liquid.



Lee A. Dickinson
Technical Service Manager

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS AND RELATED MATERIALS

(Approved by U.S. Department of Labor "Essentially Similar" to Form OSHA-20)

DATE OF PREP JULY 1983

Section I

MANUFACTURER'S NAME BOSTIK WEST/DIVISION OF USM CORPORATION/EMHART

STREET ADDRESS 20846 SOUTH NORMANDIE AVENUE CITY, STATE, AND ZIP CODE TORRANCE, CALIFORNIA 90502

EMERGENCY TELEPHONE NO. (213) 320-6800

PRODUCT CLASS EPOXY

BASE

MANUFACTURERS CODE IDENTIFICATION 453-3-110

DPM 110-7510

Cumulus White Semi-Gloss

CATALYST: CA-118

TRADE NAME BOSTIK

MIX RATIO: 3 parts 453-3-110 (base) to 1 part CA-118 by volume.

Section II - HAZARDOUS INGREDIENTS

| INGREDIENT 453-3-110 (BASE ONLY) | CAS NO. | PERCENT (WT.) | TLV | | LEL | VAPOR PRESSURE |
|----------------------------------|-----------|---------------|-----|-------------------|-----|----------------|
| | | | PPM | mg/M ³ | | |
| METHYL ETHYL KETONE | 78-93-3 | 15-20 | 200 | | 1.8 | 70 |
| BUTYL ACETATE | 123-86-4 | 5-10 | 150 | | 1.7 | 8 |
| XYLENE | 1330-20-7 | < 5 | 100 | | 1.0 | 7 |
| TOLUENE | 108-88-3 | < 5 | 200 | | 1.2 | 22 |
| CELLOSOLVE ACETATE | 111-15-9 | < 5 | 100 | | 1.7 | 2 |
| BUTYL CELLOSOLVE | 111-76-2 | < 5 | 50 | | 1.1 | 1 |
| BUTYL ALCOHOL | 71-36-3 | < 1 | 100 | | 1.7 | 4 |

Section III - PHYSICAL DATA

BOILING RANGE 176° to 340°F VAPOR DENSITY ☒ HEAVIER ☐ LIGHTER THAN AIR

EVAPORATION RATE ☐ FASTER ☒ SLOWER THAN ETHER PERCENT VOLATILE BY VOLUME 63.7% WEIGHT PER GALLON 10.2 lbs

Section IV - FIRE AND EXPLOSION HAZARD DATA

DOT CATEGORY RED LABEL, FLAMMABLE (MIN.) FLASH POINT 23° F TAG CLOSED CUP LEL 1.0

EXTINGUISHING MEDIA EXCLUDE AIR - USE FOAM, CO₂, STEAM, WATER FOG, DRY CHEMICALS. DO NOT USE WATER.

UNUSUAL FIRE AND EXPLOSION HAZARDS VAPOR FORMS EXPLOSIVE MIXTURE WITH AIR BETWEEN UPPER AND LOWER EXPLOSION LIMITS.

SPECIAL FIRE FIGHTING PROCEDURES DO NOT USE WATER, EXCLUDE AIR, USE WATER SPRAY TO COOL FIRE EXPOSED SURFACES AND TO PROTECT PERSONNEL.

Section V – HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE : See Section II

EFFECTS OF OVEREXPOSURE : Headache, nausea, dizziness. Breathing vapor will be irritating to nose, throat and eyes.

Emergency and first aid procedures: Skin Exposure: Wash affected area with soap and water.

Eye Exposure: Flush with water for at least 15 minutes, consult physician.

Ingestion: Consult physician immediately.

Inhalation: Remove victim to fresh air, consult physician.

Section VI – REACTIVITY DATA

STABILITY ☐ UNSTABLE ☒ STABLE

CONDITIONS TO AVOID : Storage at high temperatures.

Incompatibility (Materials to avoid): Strong oxidizing agents, Inorganic acids Sparks & Open

Hazardous Decomposition Products: On combustion CO, CO₂, Oxides of nitrogen. Flame

HAZARDOUS POLYMERIZATION ☐ MAY OCCUR ☒ WILL NOT OCCUR
CONDITIONS TO AVOID

Section VII – SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED : Eliminate sources of ignition and clear fumes from area. Prevent liquid from entering sewers, water sources, or low areas. Keep unnecessary personnel away. Shut off source, if possible to do so without hazard. Contain spilled liquid with sawdust or oil absorbing compound. Wash area with detergent & water.

WASTE DISPOSAL METHOD

Consult disposal expert and ensure conformity with local regulations.

Section VIII – SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION : Use approved respiratory protection such as an air-supplied mask if used in non-ventilated area.

Mechanical: Explosion-proof ventilation equipment. No smoking or open lights.

VENTILATION : Face velocity > 60 fpm in confined area.

Protective Gloves: Chemically resistant gloves.

EYE PROTECTION : Chemical splash goggles or face shield

OTHER PROTECTIVE EQUIPMENT : Eye bath & safety shower.

Section IX – SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING : Material is sensitive to moisture & should be kept in tightly closed containers. Do Not handle or store near flame, heat or strong oxidants. Adequate ventilation required. Containers of this product may be hazardous when emptied these containers retain product residues (Vapor, liquid, etc).

All handling equipment should be electrically grounded. Treat as a very flammable liquid.



Lee A. Dickinson
Technical Service Manager

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS AND RELATED MATERIALS

(Approved by U.S. Department of Labor "Essentially Similar" to Form OSHA-20)

DATE OF PREP

JULY 1983

Section I

MANUFACTURER'S NAME BOSTIK WEST/DIVISION OF USM CORPORATION/EMHART

STREET ADDRESS 20846 SOUTH NORMANDIE AVENUE CITY, STATE, AND ZIP CODE TORRANCE, CALIFORNIA 90502

EMERGENCY TELEPHONE NO. (213) 320-6800

PRODUCT CLASS EPOXY

DPM 110-7244 DK BEIGE - *SEMI-GLOSS*

MANUFACTURERS CODE IDENTIFICATION 453-3-112

CATALYST: CA-118

MIX RATIO: 3 part 453-3-112 (base)
to 1 part CA-118 by volume.

TRADE NAME BOSTIK

Section II - HAZARDOUS INGREDIENTS

| INGREDIENT | CAS NO. | PERCENT (WT.) | TLV | | LEL | VAPOR PRESSURE |
|-----------------------|-----------|------------------|-----|-------------------|-----|-------------------|
| | | | PPM | mg/M ³ | | |
| 453-3-112 (BASE ONLY) | | | | | | |
| METHYL ETHYL KETONE | 78-93-3 | 20-25 | 200 | | 1.8 | 70 |
| CELLOSOLVE ACETATE | 111-15-9 | 5-10 | 100 | | 1.7 | 2 |
| BUTYL ACETATE | 123-86-4 | 5-10 | 150 | | 1.7 | 8 |
| TOLUENE | 108-88-3 | < 5 | 200 | | 1.2 | 22 |
| XYLENE | 1330-20-7 | < 5 | 100 | | 1.0 | 7 |
| BUTYL CELLOSOLVE | 111-76-2 | < 5 | 50 | | 1.1 | 1 |
| BUTYL ALCOHOL | 71-36-3 | < 1 | 100 | | 1.7 | 4 |

Section III - PHYSICAL DATA

BOILING RANGE 176° to 340° F VAPOR DENSITY ☒ HEAVIER ☐ LIGHTER THAN AIR

EVAPORATION RATE ☐ FASTER ☒ SLOWER THAN ETHER PERCENT VOLATILE BY VOLUME 64.7% WEIGHT PER GALLON 10.0 lbs

Section IV - FIRE AND EXPLOSION HAZARD DATA

DOT CATEGORY RED LABEL, FLAMMABLE (MIN.) FLASH POINT 23° F TAG CLOSED CUP LEL 1.0

EXTINGUISHING MEDIA EXCLUDE AIR - USE FOAM, CO₂, STEAM, WATER FOG, DRY CHEMICALS.
DO NOT USE WATER.

UNUSUAL FIRE AND EXPLOSION HAZARDS VAPOR FORMS EXPLOSIVE MIXTURE WITH AIR BETWEEN
UPPER AND LOWER EXPLOSION LIMITS.

SPECIAL FIRE FIGHTING PROCEDURES DO NOT USE WATER, EXCLUDE AIR, USE WATER SPRAY TO
COOL FIRE EXPOSED SURFACES AND TO PROTECT PERSONNEL.

Section V — HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE : See Section II

EFFECTS OF OVEREXPOSURE : Headache, nausea, dizziness. Breathing vapor will be irritating to nose, throat and eyes.

Emergency and first aid procedures: Skin Exposure: Wash affected area with soap and water.

Eye Exposure: Flush with water for at least 15 minutes, consult physician.

Ingestion: Consult physician immediately.

Inhalation: Remove victim to fresh air, consult physician.

Section VI — REACTIVITY DATA

STABILITY ☐ UNSTABLE ☒ STABLE

CONDITIONS TO AVOID : Storage at high temperatures.

Incompatibility (Materials to avoid): Strong oxidizing agents, Inorganic acids Sparks & Open

Hazardous Decomposition Products: On combustion CO, CO₂, Oxides of nitrogen. Flame

HAZARDOUS POLYMERIZATION ☐ MAY OCCUR ☒ WILL NOT OCCUR

CONDITIONS TO AVOID

Section VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED : Eliminate sources of ignition and clear fumes from area. Prevent liquid from entering sewers, water sources, or low areas. Keep unnecessary personnel away. Shut off source, if possible to do so without hazard. Contain spilled liquid with sawdust or oil absorbing compound. Wash area with detergent & water.

WASTE DISPOSAL METHOD

Consult disposal expert and ensure conformity with local regulations.

Section VIII — SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION : Use approved respiratory protection such as an air-supplied mask if used in non-ventilated area.

Mechanical: Explosion-proof ventilation equipment. No smoking or open lights.

VENTILATION : Face velocity > 60 fpm in confined area.

Protective Gloves: Chemically resistant gloves.

EYE PROTECTION : Chemical splash goggles or face shield

OTHER PROTECTIVE EQUIPMENT : Eye bath & safety shower.

Section IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING : Material is sensitive to moisture & should be kept in tightly closed containers. Do Not handle or store near flame, heat or strong oxidants. Adequate ventilation required. Containers of this product may be hazardous when emptied these containers retain product residues (Vapor, liquid, etc).

OTHER PRECAUTIONS

All handling equipment should be electrically grounded. Treat as a very flammable liquid.



Lee A. Dickinson
Technical Service Manager

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS AND RELATED MATERIALS

(Approved by U.S. Department of Labor "Essentially Similar" to Form OSHA-20)

DATE OF PREP

JULY 1983

Section I

MANUFACTURER'S NAME BOSTIK WEST/DIVISION OF USM CORPORATION/EMHART

STREET ADDRESS 20846 SOUTH NORMANDIE AVENUE CITY, STATE, AND ZIP CODE TORRANCE, CALIFORNIA 90502

EMERGENCY TELEPHONE NO. (213) 320-6800

PRODUCT CLASS EPOXY

BASE

MANUFACTURERS CODE IDENTIFICATION 453-3-113

DPM 110-7241 LT, BEIGE SEMI-GLOSS

CATALYST: CA-118

TRADE NAME BOSTIK

MIX RATIO: 3 parts 453-3-113 (base)
to 1 part CA-118 by volume.

Section II - HAZARDOUS INGREDIENTS

| INGREDIENT 453-3-113 (BASE ONLY) | CAS NO. | PERCENT (WT.) | TLV | | LEL | VAPOR PRESSURE |
|----------------------------------|-----------|---------------|-----|-------------------|-----|----------------|
| | | | PPM | mg/M ³ | | |
| METHYL ETHYL KETONE | 78-93-3 | 20-25 | 200 | | 1.8 | 70 |
| CELLOSOLVE ACETATE | 111-15-9 | 5-10 | 100 | | 1.7 | 2 |
| BUTYL ACETATE | 123-86-4 | < 5 | 150 | | 1.7 | 8 |
| BUTYL CELLOSOLVE | 111-76-2 | < 5 | 50 | | 1.1 | 1 |
| XYLENE | 1330-20-7 | < 5 | 100 | | 1.0 | 7 |
| TOLUENE | 108-88-3 | < 5 | 200 | | 1.2 | 22 |
| BUTYL ALCOHOL | 71-36-3 | < 1 | 100 | | 1.7 | 4 |

Section III - PHYSICAL DATA

BOILING RANGE 176° to 340° F VAPOR DENSITY ☒ HEAVIER ☐ LIGHTER THAN AIR

EVAPORATION RATE ☐ FASTER ☒ SLOWER THAN ETHER PERCENT VOLATILE BY VOLUME 64.3% WEIGHT PER GALLON 10.2 lbs

Section IV - FIRE AND EXPLOSION HAZARD DATA

DOT CATEGORY RED LABEL, FLAMMABLE (MIN.) FLASH POINT 23° F TAG CLOSED CUP LEL 1.0

EXTINGUISHING MEDIA EXCLUDE AIR - USE FOAM, CO₂, STEAM, WATER FOG, DRY CHEMICALS. DO NOT USE WATER.

UNUSUAL FIRE AND EXPLOSION HAZARDS VAPOR FORMS EXPLOSIVE MIXTURE WITH AIR BETWEEN UPPER AND LOWER EXPLOSION LIMITS.

SPECIAL FIRE FIGHTING PROCEDURES DO NOT USE WATER, EXCLUDE AIR, USE WATER SPRAY TO COOL FIRE EXPOSED SURFACES AND TO PROTECT PERSONNEL.

Section V — HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE : See Section II

EFFECTS OF OVEREXPOSURE : Headache, nausea, dizziness. Breathing vapor will be irritating to nose, throat and eyes.

Emergency and first aid procedures: Skin Exposure: Wash affected area with soap and water.

Eye Exposure: Flush with water for at least 15 minutes, consult physician.

Ingestion: Consult physician immediately.

Inhalation: Remove victim to fresh air, consult physician.

Section VI — REACTIVITY DATA

STABILITY ☐ UNSTABLE ☒ STABLE

CONDITIONS TO AVOID : Storage at high temperatures.

Incompatibility (Materials to avoid): Strong oxidizing agents, Inorganic acids Sparks & Open

Hazardous Decomposition Products: On combustion CO, CO₂, Oxides of nitrogen. Flame

HAZARDOUS POLYMERIZATION ☐ MAY OCCUR ☒ WILL NOT OCCUR

CONDITIONS TO AVOID

Section VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED : Eliminate sources of ignition and clear fumes from area. Prevent liquid from entering sewers, water sources, or low areas. Keep unnecessary personnel away. Shut off source, if possible to do so without hazard. Contain spilled liquid with sawdust or oil absorbing compound. Wash area with detergent & water.

WASTE DISPOSAL METHOD

Consult disposal expert and ensure conformity with local regulations.

Section VIII — SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION : Use approved respiratory protection such as an air-supplied mask if used in non-ventilated area.

Mechanical: Explosion-proof ventilation equipment. No smoking or open lights.

VENTILATION : Face velocity > 60 fpm in confined area.

Protective Gloves: Chemically resistant gloves.

EYE PROTECTION : Chemical splash goggles or face shield

OTHER PROTECTIVE EQUIPMENT : Eye bath & safety shower.

Section IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING : Material is sensitive to moisture & should be kept in tightly closed containers. Do Not handle or store near flame, heat or strong oxidants. Adequate ventilation required. Containers of this product may be hazardous when emptied these containers retain product residues (Vapor, liquid, etc).

OTHER PRECAUTIONS

All handling equipment should be electrically grounded. Treat as a very flammable liquid.



Lee A. Dickinson
Technical Service Manager

CA0988100

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS AND RELATED MATERIALS

(Approved by U.S. Department of Labor "Essentially Similar" to Form OSHA-20)

DATE OF PREP JULY 1983

Section I

MANUFACTURER'S NAME BOSTIK WEST/DIVISION OF USM CORPORATION/EMHART

STREET ADDRESS 20846 SOUTH NORMANDIE AVENUE CITY, STATE, AND ZIP CODE TORRANCE, CALIFORNIA 90502

EMERGENCY TELEPHONE NO. (213) 320-6800

PRODUCT CLASS EPOXY
DPM 110-0136 SEMI GLOSS WHITE

TRADE NAME BOSTIK

MANUFACTURERS CODE IDENTIFICATION 453-3-218
CATALYST: CA-118
MIX RATIO: 3 parts 453-3-218 (base)
to 1 part CA-118 by volume

Section II - HAZARDOUS INGREDIENTS

| INGREDIENT | CAS NO. | PERCENT (WT.) | TLV | | LEL | VAPOR PRESSURE |
|-----------------------|-----------|---------------|-----|-------------------|-----|----------------|
| | | | PPM | mg/M ³ | | |
| 453-3-218 (BASE ONLY) | | | | | | |
| METHYL ETHYL KETONE | 78-93-3 | 15-20 | 200 | | 1.8 | 70 |
| BUTYL ACETATE | 123-86-4 | < 5 | 150 | | 1.7 | 8 |
| TOLUENE | 108-88-3 | < 5 | 200 | | 1.2 | 22 |
| XYLENE | 1330-20-7 | < 5 | 100 | | 1.0 | 7 |
| CELLOSOLVE ACETATE | 111-15-9 | < 5 | 100 | | 1.7 | 2 |
| BUTYL CELLOSOLVE | 111-76-2 | < 5 | 50 | | 1.1 | 1 |
| BUTYL ALCOHOL | 71-36-7 | < 1 | 100 | | 1.7 | 4 |

Section III - PHYSICAL DATA

BOILING RANGE 176° to 340° F VAPOR DENSITY ☒ HEAVIER ☐ LIGHTER THAN AIR
EVAPORATION RATE ☐ FASTER ☒ SLOWER THAN ETHER PERCENT VOLATILE BY VOLUME 63.9% WEIGHT PER GALLON 10.2 lbs

Section IV - FIRE AND EXPLOSION HAZARD DATA

DOT CATEGORY RED LABEL, FLAMMABLE (MIN.) FLASH POINT 23°F TAG CLOSED CUP LEL 1.0

EXTINGUISHING MEDIA EXCLUDE AIR - USE FOAM, CO₂, STEAM, WATER FOG, DRY CHEMICALS.
DO NOT USE WATER.UNUSUAL FIRE AND EXPLOSION HAZARDS VAPOR FORMS EXPLOSIVE MIXTURE WITH AIR BETWEEN
UPPER AND LOWER EXPLOSION LIMITS.SPECIAL FIRE FIGHTING PROCEDURES DO NOT USE WATER, EXCLUDE AIR, USE WATER SPRAY TO
COOL FIRE EXPOSED SURFACES AND TO PROTECT PERSONNEL.

Section V — HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE : See Section II

EFFECTS OF OVEREXPOSURE : Headache, nausea, dizziness. Breathing vapor will be irritating to nose, throat and eyes.

Emergency and first aid procedures: Skin Exposure: Wash affected area with soap and water.

Eye Exposure: Flush with water for at least 15 minutes, consult physician.

Ingestion: Consult physician immediately.

Inhalation: Remove victim to fresh air, consult physician.

Section VI — REACTIVITY DATA

STABILITY ☐ UNSTABLE ☒ STABLE

CONDITIONS TO AVOID : Storage at high temperatures.

Incompatibility(Materials to avoid): Strong oxidizing agents, Inorganic acids Sparks & Open

Hazardous Decomposition Products: On combustion CO, CO₂, Oxides of nitrogen. Flame

HAZARDOUS POLYMERIZATION ☐ MAY OCCUR ☒ WILL NOT OCCUR

CONDITIONS TO AVOID

Section VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED : Eliminate sources of ignition and clear fumes from area. Prevent liquid from entering sewers, water sources, or low areas. Keep unnecessary personnel away. Shut off source, if possible to do so without hazard. Contain spilled liquid with sawdust or oil absorbing compound. Wash area with detergent & water.

WASTE DISPOSAL METHOD

Consult disposal expert and ensure conformity with local regulations.

Section VIII — SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION : Use approved respiratory protection such as an air-supplied mask if used in non-ventilated area.

Mechanical: Explosion-proof ventilation equipment. No smoking or open lights.

VENTILATION: Face velocity > 60 fpm in confined area.

Protective Gloves: Chemically resistant gloves.

EYE PROTECTION : Chemical splash goggles or face shield

OTHER PROTECTIVE EQUIPMENT: Eye bath & safety shower.

Section IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING : Material is sensitive to moisture & should be kept in tightly closed containers. Do Not handle or store near flame, heat or strong oxidants. Adequate ventilation required. Containers of this product may be hazardous when emptied these containers retain product residues (Vapor, liquid, etc).

OTHER PRECAUTIONS
All handling equipment should be electrically grounded. Treat as a very flammable liquid.



Lee A. Dickinson
Technical Service Manager

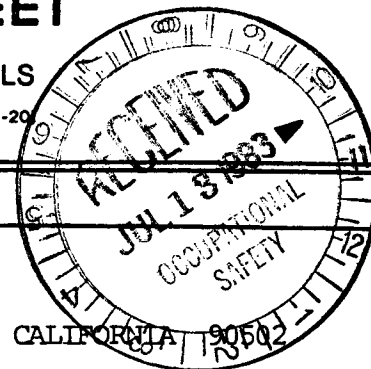
MATERIAL SAFETY DATA SHEET

CA0988100

FOR COATINGS, RESINS AND RELATED MATERIALS

(Approved by U.S. Department of Labor "Essentially Similar" to Form OSHA-20)

DATE OF PREP JULY 1983



Section I

MANUFACTURER'S NAME BOSTIK WEST/DIVISION OF USM CORPORATION/EMHART

STREET ADDRESS 20846 SOUTH NORMANDIE AVENUE CITY, STATE, AND ZIP CODE TORRANCE, CALIFORNIA 90501

EMERGENCY TELEPHONE NO. (213) 320-6800

PRODUCT CLASS EPOXY BASE
DPM-110-0131 SEMI GLOSS WHITE

MANUFACTURERS CODE IDENTIFICATION 453-3-162

CATALYST: CA-118

MIX RATIO: 3 parts 453-3-16 (base)
to 1 part CA-118 by volume

TRADE NAME BOSTIK

Section II - HAZARDOUS INGREDIENTS

| INGREDIENT | CAS NO. | PERCENT (WT.) | TLV | | LEL | VAPOR PRESSURE |
|------------------------|-----------|---------------|-----|-------------------|-----|----------------|
| | | | PPM | mg/M ³ | | |
| 453-3-162 (BASE ONLY) | | | | | | |
| METHYL ETHYL KETONE | 78-93-3 | 15-20 | 200 | | 1.8 | 70 |
| N-BUTYL ACETATE | 123-86-4 | < 5 | 150 | | 1.7 | 8 |
| TOLUENE | 108-88-3 | < 5 | 200 | | 1.2 | 22 |
| XYLENE | 1330-20-7 | < 5 | 100 | | 1.0 | 7 |
| CELLOSOLVE ACETATE | 111-15-9 | < 5 | 100 | | 1.7 | 2 |
| BUTYL CELLOSOLVE | 111-76-2 | < 5 | 50 | | 1.1 | 1 |
| N-BUTYL ALCOHOL | 71-36-3 | < 1 | 100 | | 1.7 | 4 |
| CHROMIUM COMPOUNDS-AS: | | | | | | |
| Chromium | 7440-47-3 | < 0.01 | - | *0.05 | - | - |
| Pb lead | 7439-92-1 | < 0.01 | - | *0.05 | - | - |

*8 HRS TWA; OSHA

Section III - PHYSICAL DATA

BOILING RANGE 176° - 340° F

VAPOR DENSITY ☒ HEAVIER ☐ LIGHTER THAN AIREVAPORATION RATE ☐ FASTER ☒ SLOWER THAN ETHER

PERCENT VOLATILE BY VOLUME 67.8% WEIGHT PER GALLON 10.2 lbs

Section IV - FIRE AND EXPLOSION HAZARD DATA

DOT CATEGORY RED LABEL, FLAMMABLE

(MIN.)
FLASH POINT 23° F TAG CLOSED CUP

LEL 1.0

EXTINGUISHING MEDIA EXCLUDE AIR - USE FOAM, CO₂, STEAM, WATER FOG, DRY CHEMICALS.
DO NOT USE WATER.UNUSUAL FIRE AND EXPLOSION HAZARDS VAPOR FORMS EXPLOSIVE MIXTURE WITH AIR BETWEEN
UPPER AND LOWER EXPLOSION LIMITS.SPECIAL FIRE FIGHTING PROCEDURES DO NOT USE WATER, EXCLUDE AIR, USE WATER SPRAY TO
COOL FIRE EXPOSED SURFACES AND TO PROTECT PERSONNEL.

Section V – HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE : See Section II

EFFECTS OF OVEREXPOSURE : Headache, nausea, dizziness. Breathing vapor will be irritating to nose, throat and eyes.

Emergency and first aid procedures: Skin Exposure: Wash affected area with soap & water.

Eye Exposure: Flush with water for at least 15 minutes, consult physician.

Ingestion: Consult physician immediately.

Inhalation: Remove victim to fresh air, consult physician.

Section VI – REACTIVITY DATA

STABILITY ☐ UNSTABLE ☒ STABLE

CONDITIONS TO AVOID: Storage at high temperatures.

Incompatibility (Materials to avoid): Strong oxidizing agents. Sparks and open flame.

Hazardous Decomposition Products: On combustion CO, CO₂, Aldehydes and other organics, lead fumes oxides of nitrogen.

HAZARDOUS POLYMERIZATION ☐ MAY OCCUR ☒ WILL NOT OCCUR

CONDITIONS TO AVOID

Section VII – SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Eliminate sources of ignition and clear fumes from area. Prevent liquid from entering sewers, water sources, or low areas. Keep unnecessary personnel away. Shut off source, if possible to do so without hazard. Contain spilled liquid with sawdust, sand or oil absorbing compound. Wash area with detergent & water.

WASTE DISPOSAL METHOD
Consult disposal expert & ensure conformity with local regulations.

Section VIII – SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION : Use approved respiratory protection such as an air-supplied mask if used in non-ventilated area.

Mechanical: Explosion-proof ventilation equipment. No smoking or open lights.

VENTILATION : Face velocity > 60 fpm in confined area.

Protective gloves: Chemically resistant gloves.

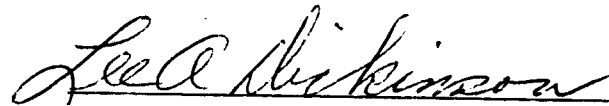
EYE PROTECTION: Chemical splash goggles or face shield.

OTHER PROTECTIVE EQUIPMENT : Eye bath & safety shower.

Section IX – SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING : Keep containers closed when not in use. Do Not handle or store near flame, heat or strong oxidants. Adequate ventilation required. Containers of this product may be hazardous when emptied - these containers retain product residues (vapor, liquid, etc

OTHER PRECAUTIONS
All handling equipment should be electrically grounded. Treat as a very flammable liquid.



Lee A. Dickinson
Technical Service Manager